B5-091806/15 L02 MARI:= 13.12.82
MARIISK POLY *SU 1114-846-A

13.12.82-SU-549238 *(23.09.84)* C04b-15/06

Light-weight silicate bricks prodn. mixt. - contains lime, dune sand, screened porous argillite sand, calcined argillite dust and water

L(2-D4, 2-D15) 1 0 91

conductivity is reduced from 0.67-0.88 to 0.55. Bul.35/23.9.84 (4pp Dwg.No 0/0)

C85-040021

Light weight silicate bricks are made from lime, dune sand, porous argillite sand, additives and water. The bricks are stronger and more thermally insulating, if they are made from the following base (wt.%): lime 5.89-8.78, dune sand 32.26-47.95, porous argillite sand (I) 29.0-45.75, calcined argillite dust (II) 3.69-11.27, remainder - water. (I) should have the following particle size analysis: size 2.5-5mm 4-6 wt.%, size 1.25-2.5 mm 20-31 wt.%, size 0.63-1.25 mm 28-31 wt.%, size 0.31-0.63 mm 20-28 wt.%, size 0.14-0.31 mm 6-10 wt.%, and size 0.05-0.14 mm the remainder.

Dust (II) consists of amorphosised black-brown, acid, alumino-silicate glass, mixed with non-amorphosised, red-brown tumescent clay granules containing Fe oxides, spinels, olivines and biotites etc. (II) reacts readily with Ca(OH)2 to give Ca hydrosilicate and aluminates, which prevent carbonate films forming on the brick surface. The bricks are pressed and correspond to USSR Spec. GOST 379-79.

ADVANTAGE - The strength of the patented bricks is increased by 30-70% (to 18 mpa); the coefft. of thermal